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L1	1	(chick or chicken) near4 myoD	USPAT	OR	OFF	2005/10/04 20:42

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=> s (chick or chicken) (4A) myoD

L1 88 (CHICK OR CHICKEN) (4A) MYOD

=> s (myoD) (4A) (fragment or (fusion protein) or antibody)

L2 109 (MYOD) (4A) (FRAGMENT OR (FUSION PROTEIN) OR ANTIBODY)

=> s l1 and l2

L3 4 L1 AND L2

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L4 ANSWER 1 OF 1 MEDLINE on STN

DUPLICATE 1

AN 97164703 MEDLINE

DN PubMed ID: 9012510

TI The distal limb environment regulates MyoD accumulation and muscle

differentiation in mouse-chick chimaeric limbs.

AU Robson L G; Hughes S M

CS MRC Muscle and Cell Motility Unit and Developmental Biology Research

Centre, The Randall Institute, King's College London, UK.

SO Development (Cambridge, England), (1996 Dec) 122 (12) 3899-910.
Journal code: 8701744. ISSN: 0950-1991.

CY ENGLAND: United Kingdom

DT Journal; Article; (JOURNAL ARTICLE)

LA English

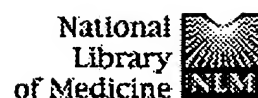
FS Priority Journals

EM 199702

ED Entered STN: 19970306
Last Updated on STN: 19970306
Entered Medline: 19970224

AB Differentiation of muscle and cartilage within developing
vertebrate limbs
occurs in a proximodistal progression. To investigate the cues
responsible for regulating muscle pattern, mouse myoblasts were
implanted
into early chick wings prior to endogenous chick muscle
differentiation.
Fetal myogenic cells originating from transgenic mice carrying a
lacZ
reporter were readily detected in vivo after implantation and
their state
of differentiation determined with species-specific **antibodies**
to **MyoD** and myosin heavy chain. When mouse myogenic cells are
implanted at the growing tip of early stage 21 limbs **MyoD**
expression is
suppressed and little differentiation of the mouse cells is
detected
initially. At later stages ectopically implanted mouse cells
come to lie
within muscle masses, re-express **MyoD** and differentiate in
parallel with
differentiating chick myoblasts. However, if mouse cells are
implanted
either proximally at stage 21 or into the limb tip at stage 24,
situations
in which mouse cells encounter endogenous differentiating **chick**
myoblasts earlier, **MyoD** suppression is not detected and a higher
proportion of mouse cells differentiate. Mouse cells that
remain distal
to endogenous differentiating myogenic cells are more likely to
remain
undifferentiated than myoblasts that lie within differentiated
chick
muscle. Undifferentiated distal mouse cells are still capable of
differentiating if explanted in vitro, suggesting that myoblast
differentiation is inhibited in vivo. In vitro, **MyoD** is
suppressed in
primary mouse myoblasts by the addition of FGF2 and FGF4 to the
culture
media. Taken together, our data suggest that the inhibition of
myogenic

differentiation in the distal limb involves MyoD suppression in myoblasts,
possibly through an FGF-like activity.



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☐ **1:** Simone C, Stiegler P, Bagella L, Pucci B, Bellan C, De Falco G, De Luca A, Guanti G, Puri PL, Giordano A. Related Articles, Links

Activation of MyoD-dependent transcription by cdk9/cyclin T2. Oncogene. 2002 Jun 13;21(26):4137-48. PMID: 12037670 [PubMed - indexed for MEDLINE]

☐ **2:** Zhang JM, Zhao X, Wei Q, Paterson BM. Related Articles, Links

Direct inhibition of G(1) cdk kinase activity by MyoD promotes myoblast cell cycle withdrawal and terminal differentiation. EMBO J. 1999 Dec 15;18(24):6983-93. PMID: 10601020 [PubMed - indexed for MEDLINE]

☐ **3:** Zhang JM, Wei Q, Zhao X, Paterson BM. Related Articles, Links

Coupling of the cell cycle and myogenesis through the cyclin D1-dependent interaction of MyoD with cdk4. EMBO J. 1999 Feb 15;18(4):926-33. PMID: 10022835 [PubMed - indexed for MEDLINE]

☐ **4:** Flink IL, Oana S, Maitra N, Bahl JJ, Morkin E. Related Articles, Links

Changes in E2F complexes containing retinoblastoma protein family members and increased cyclin-dependent kinase inhibitor activities during terminal differentiation of cardiomyocytes. J Mol Cell Cardiol. 1998 Mar;30(3):563-78. PMID: 9515032 [PubMed - indexed for MEDLINE]